

CLAIMS

1. A computer system comprising:
 - a computer body, comprising:
 - a hard disk to store user data, a video connector to transmit data,
 - a video processing part to generate video data, a video memory to temporarily store the video data generated through the video processing part and the user data stored in the hard disk,
 - a data transmitting part to output the video data and the user data temporarily stored in the video memory through the video connector; and
 - a display apparatus, comprising:
 - a display part,
 - a body connection part to connect to the video connector of the computer body,
 - an external apparatus connecting part to connect to an external apparatus,
 - a data receiving part to receive the video data and the user data provided from the computer body through the body connection part,
 - a control part to display the video data received through the data receiving part to the display part and to output the user data to the external apparatus connected to the external apparatus connecting part.
2. The computer system according to claim 1, wherein the data transmitting part and the data receiving part respectively comprises a TMDS (Transition Minimized Differential Signals) transmitter and a TMDS receiver to compress/extract data according to a TMDS-based digital data transmission standard.
3. The computer system according to claim 2, wherein the TMDS transmitter comprises RGB data output pins, and compresses the user data and the video data provided from the video memory in a predetermined ratio to output a compressed user and video data through the respective RGB data output pins.
4. The computer system according to claim 2, wherein the control part comprises a signal separating part to separate digital data extracted in the data receiver into the video data and the user data.

5. The computer system according to claim 1, wherein the display apparatus has a buffer temporarily storing the user data received through the data receiving part.

6. The computer system of claim 5, wherein the external apparatus connecting part outputs a digital signal from the data transmitting part to the external apparatus via the buffer.

7. The computer system of claim 1, wherein the computer body further comprises a parallel-serial converting part to convert the user data to serial data, wherein the user data is parallel data.

8. The computer system according to claim 2, wherein the computer body further comprises a parallel-serial converting part to convert the user data stored in the hard disk to serial data, wherein the parallel-serial converting part outputs a converted serial data to the display apparatus through a predetermined pin of the video connector.

9. A data transmitting method of a computer system including a computer body having a hard disk to store user data, a video processing part to generate video data, and a video connector through which the generated video data is outputted; and a display apparatus having a body connection part to be connected to the video connector, comprising:

providing an external apparatus connecting part in the display apparatus;
transmitting data to the display apparatus through the video connector; and
displaying the video data of a transmitted data as a picture and outputting the user data of the transmitted data to an external apparatus connected to the external apparatus connecting part.

10. The data transmitting method of the computer system according to claim 9, further comprising:

compressing the user data and the video data according to a TMDS-based digital data transmission standard, before transmitting the data from the computer body to the display apparatus.

11. The data transmitting method of the computer system according to claim 10, further comprising:

extracting the data; and

separating an extracted data into the video data and the user data.

12. The data transmitting method of the computer system according to claim 9, further comprising:

setting up a predetermined pin of the video connector as a data transmission pin; and converting the user data to serial data,

wherein the transmitting of the data comprises outputting the serial data to the display apparatus through the data transmission pin.

13. The data transmitting method of claim 9, further comprising:

storing the video data and the user data of the hard disk in a predetermined memory, wherein the data that is transmitted is the video data and the user data.

14. The data transmitting method of claim 9, further comprising:

converting the user data to serial data,

wherein the data that is transmitted is the video data and the serial data.

15. A computer system, comprising: a processing unit, comprising;

a video processor to generate video data, a storage unit to store user data, and

a data transmitter to transmit the video data and the user data; an external storage unit to store the user data; and

a display unit, which is connected to the processing unit via a video connector, and which is connected to the external storage unit via an external storage unit connector, to display the video data and to transmit the user data to the external storage unit.